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Liposome interactions with biological systems: a journey into cells

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List of publications

1. **Yang KN**, Mesquita B, Horvatovich P, Salvati A. *Tuning Liposome Composition to Modulate Corona Formation in Human Serum and Cellular Uptake*. **Acta Biomater.**, 2020, 106, 314-327.
2. Francia V, **Yang KN**, Deville S, Reker-Smit C, Nelissen I, Salvati A. *Corona Composition Can Affect the Mechanisms Cells Use to Internalize Nanoparticles*. **ACS Nano**, 2019, 13, 11107-11121.
3. Zhao X¹, **Yang KN**¹, Zhao RF, Ji TJ, Wang XC, Yang X, Zhang YL, Cheng KM, Liu SL, Hao JH, Ren H, Leong KW, Nie GJ. *Inducing Enhanced Immunogenic Cell Death with Nanocarrier-based Drug Delivery Systems for Pancreatic Cancer Therapy*. **Biomaterials**, 2016, 102, 187-197. (¹ equal contribution)
4. Deng H, Zhao XF, He DX, Guo WS, **Yang KN**, Dong AJ, Liang XJ. *One-Step Gene Delivery into the Cytoplasm in A Fusion-Dependent Manner Based on A New Membrane Fusogenic Lipid*. **Chem. Commun.**, 2016, 52, 7406-7408.
5. Zhuang XX, Ma XW, Xue XD, Jiang Q, Song LL, Dai LR, Zhang CQ, Jin SB, **Yang KN**, Ding BQ, Wang PC, Laing XJ. *A Photosensitizer-Loaded DNA Origami Nanosystem for Photodynamic Therapy*. **ACS Nano**, 2016, 10, 3486-3495.
6. Chen SZ¹, **Yang KN**¹, Tuguntaev RG, Mozhi A, Zhang JC, Wang PC, Liang XJ. *Targeting Tumor Microenvironment with PEG-Based Amphiphilic Nanoparticles to Overcome Chemoresistance*. **Nanomedicine: NBM**, 2016, 12, 269-286. (¹ equal contribution)
7. **Yang KN**¹, Li SL¹, Jin SB, Xue XD, Zhang TB, Zhang CQ, Xu J, Liang XJ. *Micelle-like luminescent nanoparticles as a visible gene delivery system with reduced toxicity*. **J. Mater. Chem. B**, 2015, 3, 8394-8400. (¹ equal contribution)
8. Xue XD, Jin SB, Zhang CQ, **Yang KN**, Huo SD, Chen F, Zou GZ, Liang XJ. *Probe-Inspired Nano-Prodrug with Dual-Color Fluorogenic Property Reveals Spatiotemporal Drug Release in Living Cells*. **ACS Nano**, 2015, 9, 2729-2739.
9. Zhang CQ, Li YW, Xue XD, Chu PF, Liu C, **Yang KN**, Jiang YG, Chen WQ, Zou GZ, Liang XJ. *A Smart pH-Switchable Luminescent Hydrogel*. **Chem. Commun.**, 2015, 51, 4168-4171.
10. Zhang CQ, Xue XD, Li YW, Luo Q, **Yang KN**, Zhuang XX, Jiang YG, Zhang JC, Liu JQ, Zou GZ, Liang XJ. *Self-Assembled Peptide Nanofibers Designed as Biological Enzymes for Catalyzing Ester Hydrolysis*. **ACS Nano**, 2014, 8, 11715-11723.

11. Zhang CQ, Jin SB, **Yang KN**, Xue XD, Li ZP, Jiang YG, Chen WQ, Dai LR, Zou GZ, Liang XJ. *A Cell Membrane Tracker Based on Restriction of Intramolecular Rotation*. *ACS Appl. Mater. Interfaces*, 2014, 6, 8971-8975.
12. Huo SD, Jin SB, Ma XW, Xue XD, **Yang KN**, Kumar A., Wang P.C., Zhang JC, Hu ZB, Liang XJ. *Ultra-Small Gold Nanoparticles as Carriers for Nucleus-Based Gene Therapy Due to Size-Dependent Nuclear Entry*. *ACS Nano*, 2014, 8, 5852-5862.
13. **Yang KN**, Zhang CQ, Wang W, Wang PC, Zhou JP, Liang XJ. *pH-Responsive Mesoporous Silica Nanoparticles Employed in Controlled Drug Delivery Systems for Cancer Treatment*. *Cancer Biol. Med.*, 2014, 11, 34-43.

Manuscripts submitted or in preparation

1. **Kenji Yang**, Anna Salvati. *Effects of Protein Source on Liposome Uptake by Cells: Corona Composition and Impact of the Excess Free Proteins*. (Submitted)
2. Daphne Montizaan¹, **Kenji Yang**¹, Catharina Reker-Smit, Anna Salvati. *Comparison of the Uptake Mechanisms of Zwitterionic and Negatively Charged Liposomes by HeLa Cells*. (¹ equal contribution, submitted)
3. **Kenji Yang**, Karolina Tran, Anna Salvati. *Tuning Liposome Stability in Biological Environments and Intracellular Drug Release Kinetics*. (In preparation)
4. **Kenji Yang**, Jan Jacob Schuringa, Anna Salvati. *Cell Membrane Nanoparticles to Probe the Interactions between Stromal and Cancer Cells in Acute Myeloid Leukemia*. (In preparation)
5. Chunqiu Zhang¹, **Kenji Yang**¹, Yi-Feng Wang¹, Xing-Jie Liang. *Engineering a RIR (restriction of intermolecular rotation) Probe Labeled Liposome for Monitoring the Transmembrane Transport of Nanovehicles*. (¹ equal contribution, in preparation)

Conferences attendance and presentations

2019 International Conference On Nanomedicine And Nanobiotechnology-ICONAN 2019, Munich, Germany (Oral presentation)

2019 The 2019 Controlled Release Society Annual Meeting & Exposition, Valencia, Spain (Poster presentation, nominated as great scientific communication poster)

2018 Annual Pharmacy Day of GRIP Institute, Groningen, the Netherlands (Oral presentation)

2017 7th International Conference on Nanoscience and Technology, China 2017 (ChinaNANO 2017), Beijing, China (Poster presentation)

2017 10th European and Global Conference and Exhibition for Clinical Nanomedicine & Targeted Medicine, CLINAM 2017, Basel, Switzerland (Oral presentation in a small speech session and poster presentation)

2017 18th Kolff Conference, Schiermonnikoog, the Netherlands (Oral Presentation)

2016 NWO CHAINS 2016: Annual Dutch Chemistry Conference, Veldhoven, the Netherlands (Poster presentation)